

reactions of anthraquinone sulphonic pdf

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DERIVATIVES OF ANTHRAQUINONE. REACTIONS OF ANTHRAQUINONE

15.4.1 1-Amino-4-(substituted)amino anthraquinone-2-sulphonic acids. These are obtained by the condensation of bromamine acid with aromatic or cycloaliphatic amines, by an Ullmann reaction catalysed by copper or copper salts.

Anthraquinone - an overview | ScienceDirect Topics

For example, 0,002329 moles of NaOH were required to neutralize the residue obtained on oxidizing 1,8 anthraquinone propyl iso-propyl di- thio-ether, as compared with the calculated 0,002419 moles of NaOH required for the formation of 1,8 anthraquinone propyl sulphone sulphonic acid.

Full text of "Reactions of anthraquinone sulphonic acids

the anthraquinone sulphonic acid and interaction of the heavy metal ions on the redox behaviour of the anthraquinone sulphonic acid in the aqueous alcoholic 0.1M KCl solution. And the mechanism for the electrocatalytic property of the heavy metal ions on the redox behaviour of AQS acid is studied

Electrochemical study of interaction of the Heavy Metal

1,4-Diamino-anthraquinone-2-sulphonic acid is obtained in a simple manner, in good yield and good purity, by reacting 1-amino-4-bromo-anthraquinone-2-sulphonic acid with ammonia in water in the presence of copper catalysts at an elevated temperature, under a partial pressure of ammonia of at least 5 bar.

US4521341A - Process for the preparation of 1,4-diamino

Procedure: Anthraquinone In a reaction tube dissolve 100 mg of 2-benzoylbenzoic acid in 0.5 mL of concentrated sulfuric acid by gently heating and stirring. Warm the sand bath to about 150°C. Immerse a thermometer in the reaction mixture, and heat it at 150 to 155°C in the sand bath. Perform a TLC analysis after 10 min.

The Friedel-Crafts Reaction: Anthraquinone

In sulphonating anthraquinone to produce a maximum quantity of the beta sulphonated product, there is always produced a certain amount of the alpha isomer. This alpha isomer upon further sulphonation gives a disulphonic acid having at least one sulphonic acid group in the alpha position.

US1899957A - Process for preparing anthraquinone sulphonic

Synthesis description for preparation of ANTHRAQUINONE. 20 grams of o-benzoylbenzoic acid (either hydrated or anhydrous) is heated with 100 ml of concentrated sulfuric acid for 1 hour. ... Synthesis of anthraquinone (anthracenedione; dioxoanthracene) Preparation of anthraquinone. ... Popular chemical reactions.

Synthesis of ANTHRAQUINONE - PrepChem.com

Generalprocedures Phthalic anhydride (1 mmol), substituted benzene (1.1mmol),andwater(5mL)weremixedina25-mL single-neck round-bottom flask, and to this alum

An efficient one-pot synthesis of anthraquinone

A sulfonic acid (or sulphonic acid) refers to a member of the class of organosulfur compounds with the general formula $R-S(=O)_2-OH$, where R is an organic alkyl or aryl group and the $S(=O)_2(OH)$ group a sulfonyl hydroxide.

Sulfonic acid - Wikipedia

Cyclic voltammetry was employed to study the electrochemical behavior of anthraquinone (AQ) in aqueous solution at a glassy carbon electrode using the sodium salt of anthraquinone-2-sulphonic acid (AQS). The cyclic voltammograms show a reduction wave and a corresponding oxidation wave.

Aqueous Electrochemistry of Anthraquinone and Its

ORIGINAL ARTICLE Electrochemical behavior of anthraquinone in aqueous solution in presence of a non-ionic surfactant Iqbal Mahmud a, A.J.F. Samed a, Md. Anamul Haque b, Md. Abu Bin Hasan Susan b ...

Electrochemical behavior of anthraquinone in aqueous

9,10-Anthraquinone is used as a digester additive in production of paper pulp by alkaline processes, like the Kraft, the alkaline sulfite or the Soda-AQ processes. The anthraquinone is a redox catalyst. The reaction mechanism may involve single electron transfer (SET).

Anthraquinone - Wikipedia

The only positive reaction was when anthraquinone was irradiated with UVA; a biopsy was taken of the positive reaction and showed eczema. Photo-patch tests with anthraquinone were performed in 5 controls and were negative (the test substance used contained 99% anthraquinone, 0.05% anthracene, 0.3% anthrone, 0.1% nitrobenzene).

Anthraquinone | C₁₄H₈O₂ - PubChem

Bacillus sp. BT1 exhibited enhanced efficiency as well as rate of Cr(VI) reduction in the presence of anthraquinone-2-sulfonic acid (AQS), a quinone compound analogous to humic acid.

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